

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A method of winding a toroidally wound electrodynamic machine, comprising the sequential steps of: ~~characterised in that~~

forming a set of bobbins are located in a rectilinear axially aligned array of adjacent bobbins, with the rectilinearly located bobbins ~~are~~ wound with a continuous wire or a continuous set of parallel wires for each phase; and [[,]]

forming the wound rectilinear array of bobbins, ~~then~~ ~~being formed by bending the rectilinear array of bobbins as a whole,~~ into a circular axially aligned array as an electrodynamic machine winding with each bobbin being connected to an adjacent bobbin by physical contact with the adjacent bobbin.

2. (original) A method as claimed in claim 1 characterised in that the each phase is wound one bobbin at a time.

3. (currently amended) A method as claimed in claim 1 characterised in that the assembly of pre-wound and electrically connected bobbins is formed into a circular array

positioned about a ~~toroidal~~ core of magnetic material, such core passing through an aperture in each bobbin.

4. (original) A method as claimed in claim 1 characterised in that the bobbins interfit, to positively locate with each other.

5. (original) A method as claimed in claim 4 characterised in that the bobbins are manufactured jointly, as a single part or multiple inter-fitting parts which may be deformed into a toroid after winding.

6. (original) A method as claimed in claim 1 characterised in that the bobbins are provided with pathways to support the wires as they pass from one bobbin to another.

7. (original) A method as claimed in claim 6 characterised in that part of the pathway extends normal to a bobbin axis between two bobbins.

8. (currently amended) A wound bobbin set for a toroidally wound electrodynamic machine comprising a set of wound bobbins initially wound as a single assembly rectilinear axially aligned array of adjacent bobbins and formed by bending the single assembly wound array as a whole into a circular axially

aligned array with each bobbin being connected to an adjacent bobbin by physical contact with the adjacent bobbin, the windings of two or more bobbins in each phase being formed from a continuous wire or a continuous set of parallel wires.

9. (previously presented) A wound bobbin set as claimed in claim 8 characterised in that the winding method and bobbins provide free space between the bobbins sufficient to allow forming them into a circular array while still providing contact between the bobbins on the side of the bobbin.

10. (original) A wound bobbin set as claimed in claim 8 characterised in that the bobbins are tapered on the inner cheeks to facilitate forming into a circular array.

11. (previously presented) An electrodynamic machine when fitted with a winding as claimed in claim 8.

12-20. (cancelled).

21. (new) The method as claimed in claim 1, wherein, the set of bobbins is a single assembly of moulded plastic bobbins with adjacent bobbin pairs connected at a join, and

during said forming step, the wound bobbins are bent along one side and at a top and a bottom of the join between each pair of bobbins to form the circular coil.

22. (new) The wound bobbin as claimed in claim 8, wherein,

the set of bobbins is a single assembly of moulded plastic bobbins with adjacent bobbin pairs connected at a join, and

the wound bobbins are bent along one side and at a top and a bottom of the join between each pair of bobbins to form the circular coil.

23. (new) A method of winding a toroidally wound electrodynamic machine, comprising the sequential steps of:

mounting a set of bobbins onto a former to define a rectilinear axially aligned array of adjacent bobbins, the bobbins joined to each other;

winding the set of bobbins defining the rectilinear axially aligned array of adjacent bobbins with a continuous set of parallel wires for each phase to form a coil for a toroidally wound machine as a series of bobbins which comprise two phase windings starting at a first distal end of the former and ending at an opposite, second distal end of the former; and

forming the wound rectilinear array of bobbins, by bending the wound rectilinear array of bobbins as a whole into a circular array as a circular coil for the toroidally wound machine with the adjacent bobbins being in physical contact.

24. (new) A method as claimed in claim 23, wherein, the set of bobbins is a single assembly of moulded plastic bobbins with adjacent bobbin pairs connected at a join, in said mounting step, the single assembly is mounted onto the former, and during said forming step, the wound bobbins are bent along one side and at a top and a bottom of the join between each pair of bobbins to form the circular coil.

25. (new) A method as claimed in claim 23, wherein, the set of bobbins is a single assembly of bobbins adjacently fixedly joined, and the single assembly of bobbins is mounted onto the former in said mounting step.

26. (new) A method as claimed in claim 23, wherein the bobbins are provided with pathways to everywhere support the wires as they pass from one bobbin to another.

27. (new) A method as claimed in claim 1, wherein the bobbins are provided with pathways to everywhere support the wires as they pass from one bobbin to another.

28. (new) The method of claim 23, wherein,
the bobbins have an external shelf, one edge of each external shelf forming a pivot axis between the bobbins,
the wire is routed between bobbins and are continuously supported by the external shelf, and
the bobbins each have tapered edges on one side for defining a curved path when forming the wound bobbins into the circular array.

29. (new) The method of claim 23, wherein,
the bobbins each have a cavity and an extension such that the extension of each bobbin fits into the cavity of an adjacent bobbin.